

# Convert a number into words

## Problem

Write a function that converts a given number into words. For example, given the number “1234” as input, return the output “one thousand, two hundred and thirty-four”.

The input to your application will consist of lines of text containing random digits. You are expected to handle invalid numbers appropriately.

## Test cases

Test input	Expected output
The pump is 536 deep underground.	five hundred and thirty-six
We processed 9121 records.	nine thousand, one hundred and twenty-one
Variables reported as having a missing type #65678.	number invalid
Interactive and printable 10022 ZIP code.	ten thousand and twenty-two
The database has 66723107008 records.	sixty-six billion, seven hundred and twenty-three million, one hundred and seven thousand and eight
I received 23 456,9 KGs.	number invalid

## Notes

- Typically we use the following programming languages R, Python and C, but are open to receiving the code in other programming languages
- The application should include a way to input data via a plain-text file
- The application must be able to run with the output directed to `STDOUT`
- The application should output correct values for inputs other than those specified under *Test input*
- You should provide sufficient evidence that your application is complete by including an example using the *Test input* data
- The submission should be pushed to a public or private version controlled repository (preferably `github`) and the relevant URL shared with us
- You may use all resources available to you, however you are strongly discouraged from using any 3rd party libraries specifically designed to solve this problem

**Please include an explanation of your design choices and assumptions, along with your code and any instructions necessary to run the application**

# Evaluation criteria

- Rather than developing the most *technically correct* solution, we are interested in your **thought process** and approach to deriving a solution to such a problem.
- This problem should be seen as an opportunity to showcase your knowledge, and highlight those aspects of software engineering which you believe to be important.
- So while it is a small problem, we expect you to submit what you believe is a reasonably well polished application that you would be able to:
  - run
  - maintain
  - evolve